Cardiovascular Disease

PREVIOUSLY HAD HEART A ATTACK

Definition: Respondents who answered "yes" to the question "Has a doctor, nurse, or other health professional ever told you that you had a heart attack or myocardial infarction?"

Prevalence of previously had a heart attack

- South Dakota 4.6%
- o There is no nationwide median for previously had a heart attack

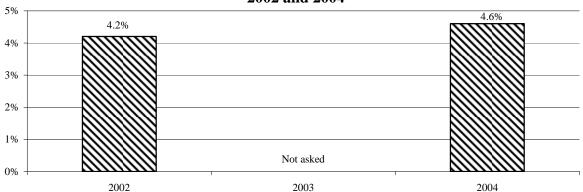
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for previously had a heart attack.

Trend Analysis

This question has only been asked two years, 2002 and 2004. There was an increase in the percent of respondents who previously had a heart attack from 2002 to 2004.

Figure 52
Percent of Respondents Who Previously Had a Heart Attack,
2002 and 2004



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2002 and 2004

Demographics

Gender A significantly higher percentage of males have been told they had a heart attack

than females. This gender difference is evident in specific demographic categories such as those 65 and older, whites, those in the northeast, college

graduates, and those who are married.

Age The prevalence of having a heart attack increases as age increases. Significant

increases occur at the 55-64, 65-74, and 75 and older age groups, but males show their greatest increase as the 65-74 age group is reached, while females don't

exhibit their largest increase until the 75 and older age group is attained.

Race There are no racial differences demonstrated by the available data.

Region There are no regional differences observed from the available data.

Household Income

The prevalence of having a heart attack decreases for males as their household income increases. This includes a significant decrease as the \$25,000-\$34,999 income group is reached. While females do show a much lower prevalence in the larger income groups, the defined decreases are not as evident with them as they are for males.

Education

Heart attack prevalence decreases as education increases. This includes a significant decrease as the some high school education level is obtained.

Employment Status

Those who are unable to work or retired demonstrate a very high prevalence of having a heart attack, while those who are employed for wages, unemployed, a homemaker, or a student show a very low prevalence.

Marital Status

Those who are widowed exhibit a very high prevalence of having a heart attack, while those who have never been married show a very low prevalence.

| R | Table 78 Respondents Who Previously Had a Heart Attack, 2004 | | | | | | | | |
|--------------------------|--|-------|-------------|------------|------|-------------|---------|------|-------------|
| 10 | | Total | | siy ilau a | Male | | Female | | |
| | # Resp. | % | 95% CI | # Resp. | % | 95% CI | # Resp. | % | 95% CI |
| Total | 5,994 | 4.6 | (4.1-5.2) | 2,452 | 5.7 | (4.9-6.7) | 3,542 | 3.5 | (3.0-4.2) |
| Age | ĺ | | , , | , | | , | | | , |
| 18-24 | 325 | 0.0 | - | 140 | 0.0 | - | 185 | 0.0 | - |
| 25-34 | 764 | 0.3 | (0.1-1.1) | 327 | 0.6 | (0.2-2.1) | 437 | 0.0 | - |
| 35-44 | 1,004 | 1.3 | (0.7-2.2) | 415 | 1.7 | (0.8-3.6) | 589 | 0.8 | (0.4-1.8) |
| 45-54 | 1,253 | 2.6 | (1.8-3.8) | 552 | 3.2 | (2.0-5.2) | 701 | 2.0 | (1.0-3.8) |
| 55-64 | 950 | 6.2 | (4.7-8.2) | 400 | 6.9 | (4.7-10.1) | 550 | 5.5 | (3.6-8.2) |
| 65-74 | 873 | 12.4 | (10.1-15.1) | 363 | 18.6 | (14.5-23.5) | 510 | 7.0 | (5.0-9.8) |
| 75+ | 805 | 18.7 | (15.8-22.0) | 249 | 26.9 | (21.3-33.4) | 556 | 13.7 | (10.7-17.2) |
| Race | | | | | | | | | |
| White | 5,370 | 4.5 | (4.0-5.1) | 2,213 | 5.7 | (4.9-6.7) | 3,157 | 3.3 | (2.8-4.0) |
| American Indian | 419 | 6.0 | (4.0-9.1) | 158 | 6.3 | (3.3-11.9) | 261 | 5.8 | (3.4-9.8) |
| Region | | | | | | | | | |
| Southeast | 1,483 | 4.0 | (3.1-5.0) | 611 | 4.6 | (3.3-6.3) | 872 | 3.4 | (2.4-4.7) |
| Northeast | 1,359 | 5.2 | (4.2-6.5) | 546 | 7.0 | (5.2-9.3) | 813 | 3.6 | (2.6-4.9) |
| Central | 1,128 | 5.0 | (3.9-6.5) | 450 | 6.3 | (4.5-8.7) | 678 | 4.0 | (2.7-5.9) |
| West | 1,397 | 4.6 | (3.7-5.8) | 581 | 5.8 | (4.3-7.8) | 816 | 3.5 | (2.4-4.9) |
| American Indian Counties | 627 | 5.1 | (3.7-7.0) | 264 | 6.4 | (4.1-9.8) | 363 | 3.9 | (2.4-6.1) |
| Household Income | | | | | | | | | |
| Less than \$10,000 | 295 | 6.7 | (4.5-9.8) | * | * | * | * | * | * |
| \$10,000-\$14,999 | 362 | 11.6 | (8.4-15.8) | * | * | * | * | * | * |
| \$15,000-\$19,999 | 492 | 9.5 | (7.1-12.5) | 181 | 12.4 | (8.4-18.0) | 311 | 7.1 | (4.6-10.7) |
| \$20,000-\$24,999 | 665 | 8.3 | (6.3-10.9) | 255 | 10.7 | (7.4-15.2) | 410 | 6.1 | (3.9-9.2) |
| \$25,000-\$34,999 | 964 | 3.8 | (2.7-5.3) | 427 | 4.7 | (3.1-7.1) | 537 | 2.9 | (1.6-5.1) |
| \$35,000-\$49,999 | 1,031 | 2.8 | (1.9-4.1) | 465 | 3.8 | (2.4-6.0) | 566 | 1.7 | (0.8-3.4) |
| \$50,000-\$74,999 | 894 | 2.1 | (1.3-3.3) | 401 | 3.8 | (2.3-6.2) | 493 | 0.4 | (0.1-1.4) |
| \$75,000+ | 711 | 2.6 | (1.7-4.1) | 375 | 3.7 | (2.3-6.1) | 336 | 1.0 | (0.3-2.7) |
| Education | | | | | | | | | |
| 8th Grade or Less | 250 | 18.7 | (13.8-24.9) | 128 | 19.0 | (12.7-27.5) | 122 | 18.3 | (11.3-28.1) |
| Some High School | 312 | 7.4 | (5.0-10.9) | 128 | 9.1 | (5.2-15.3) | 184 | 5.8 | (3.4-9.7) |
| High School or G.E.D. | 1,967 | 5.2 | (4.3-6.2) | 839 | 5.6 | (4.3-7.2) | 1,128 | 4.7 | (3.6-6.2) |
| Some Post-High School | 1,704 | 3.7 | (2.9-4.7) | 630 | 4.8 | (3.4-6.6) | 1,074 | 2.8 | (2.0-4.0) |
| College Graduate | 1,753 | 2.9 | (2.2-3.9) | 724 | 4.5 | (3.2-6.3) | 1,029 | 1.4 | (0.9-2.3) |

| | Table 78 (continued) | | | | | | | | |
|---|----------------------|-------|-------------|---------|------|-------------|---------|------|------------|
| Respondents Who Previously Had a Heart Attack, 2004 | | | | | | | | | |
| | | Total | | | Male | | | Fema | le |
| | # Resp. | % | 95% CI | # Resp. | % | 95% CI | # Resp. | % | 95% CI |
| Employment Status | | | | | | | | | |
| Employed for Wages | 2,984 | 1.8 | (1.4-2.4) | 1,221 | 2.2 | (1.6-3.1) | 1,763 | 1.5 | (1.0-2.2) |
| Self-employed | 810 | 3.0 | (2.1-4.4) | 530 | 4.2 | (2.9-6.2) | 280 | 0.4 | (0.1-1.4) |
| Unemployed | 141 | 2.7 | (0.9-7.7) | * | * | * | * | * | * |
| Homemaker | 280 | 1.7 | (0.7-3.8) | * | * | * | * | * | * |
| Student | 130 | 0.4 | (0.1-1.7) | * | * | * | * | * | * |
| Retired | 1,467 | 15.3 | (13.3-17.6) | 513 | 21.2 | (17.5-25.4) | 954 | 11.0 | (8.9-13.5) |
| Unable to Work | 180 | 16.3 | (11.0-23.6) | * | * | * | * | * | * |
| Marital Status | | | | | | | | | |
| Married/Unmarried Couple | 3,582 | 4.1 | (3.5-4.8) | 1,542 | 5.6 | (4.6-6.9) | 2,040 | 2.6 | (1.9-3.4) |
| Divorced/Separated | 799 | 5.8 | (4.2-7.8) | 346 | 8.4 | (5.7-12.1) | 453 | 3.5 | (2.0-5.8) |
| Widowed | 872 | 15.7 | (13.1-18.7) | 161 | 30.4 | (23.1-38.8) | 711 | 12.2 | (9.7-15.2) |
| Never Married | 729 | 1.0 | (0.6-1.7) | 400 | 1.2 | (0.7-2.3) | 329 | 0.6 | (0.2-1.6) |

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

Further Analysis

Following are data illustrating the percent of those who previously had a heart attack for various health behaviors and conditions. For example, 15.8 percent of respondents who stated they have fair or poor health stated they previously had a heart attack, while 3.0 percent of respondents who stated they have excellent, very good, or good health status stated they had a heart attack.

| Table 79 | | | | | | | | | |
|---|------------------------|-----------------------|-----------|--|--|--|--|--|--|
| Previously Had a Heart Attack for Selected I | lealth Behavior | | s, 2004 | | | | | | |
| Health Behavior or Condition | # Respondents | % Had Heart Attack | 95% CI | | | | | | |
| Fair or Poor Health Status | 933 | 15.8 | 13.4-18.6 | | | | | | |
| Excellent, Very Good, or Good Health Status | 5,048 | 3.0 | 2.6-3.5 | | | | | | |
| Physical Health Not Good for 30 Days of the Past 30 | 382 | 18.2 | 14.4-22.9 | | | | | | |
| Physical Health Not Good for 0-29 Days of the Past 30 | 5,560 | 3.7 | 3.2-4.3 | | | | | | |
| Mental Health Not Good for 20-30 Days of the Past 30 | 338 | 6.8 | 4.6-9.9 | | | | | | |
| Mental Health Not Good for 0-19 Days of the Past 30 | 5,598 | 4.4 | 3.9-5.0 | | | | | | |
| Usual Activities Unattainable for 10-30 Days of the Past 30 | 387 | 12.5 | 9.5-16.4 | | | | | | |
| Usual Activities Unattainable for 0-9 Days of the Past 30 | 5,588 | 4.0 | 3.5-4.6 | | | | | | |
| Obese (BMI = $30.0+$) | 1,519 | 5.7 | 4.6-7.0 | | | | | | |
| Overweight (BMI = 25.0-29.9) | 2,221 | 4.9 | 4.0-5.9 | | | | | | |
| Recommended Weight (BMI = 18.5-24.9) | 1,995 | 3.7 | 2.9-4.6 | | | | | | |
| No Leisure Time Physical Activity | 1,285 | 8.3 | 6.8-10.1 | | | | | | |
| Leisure Time Physical Activity | 4,706 | 3.7 | 3.2-4.3 | | | | | | |
| Current Smoker | 1,202 | 3.8 | 2.9-5.0 | | | | | | |
| Former Smoker | 1,569 | 9.0 | 7.6-10.6 | | | | | | |
| Never Smoked | 3,214 | 3.0 | 2.5-3.6 | | | | | | |
| Drank Alcohol in Past 30 Days | 3,218 | 3.2 | 2.7-3.9 | | | | | | |
| No Alcohol in Past 30 Days | 2,740 | 6.5 | 5.6-7.5 | | | | | | |
| Binge Drinker | 776 | 1.7 | 1.0-2.7 | | | | | | |
| Not a Binge Drinker | 5,165 | 5.1 | 4.6-5.8 | | | | | | |
| Heavy Drinker | 203 | 2.9 | 1.4-5.8 | | | | | | |
| Not a Heavy Drinker | 5,718 | 4.7 | 4.1-5.2 | | | | | | |
| No Mammogram within Past Two Years (40+) | 643 | 7.3 | 5.3-10.0 | | | | | | |
| Mammogram within Past Two Years (40+) | 1,982 | 5.0 | 4.0-6.1 | | | | | | |

| Health Behavior or Condition | Table 79 (continued) Previously Had a Heart Attack for Selected Health Behaviors and Conditions, 2004 | | | | | | | | |
|--|---|-------|-------------|-----------|--|--|--|--|--|
| No Clinical Breast Exam within Past Two Years 2,846 2,7 2,1-3.3 | • | | % Had Heart | | | | | | |
| Insufficient Cervical Cancer Screening | No Clinical Breast Exam within Past Two Years | | 6.8 | 5.0-9.3 | | | | | |
| Insufficient Cervical Cancer Screening | Clinical Breast Exam within Past Two Years | 2,846 | 2.7 | 2.1-3.3 | | | | | |
| Sufficient Cervical Cancer Screening | Insufficient Cervical Cancer Screening | | 7.8 | 1 | | | | | |
| No PSA Test within Past Two Years (40+) | | | | | | | | | |
| PSA Test within Past Two Years (40+) 953 13.1 10.9-15.5 No Digital Rectal Exam within Past Two Years (40+) 796 6.2 4.7-8.1 Digital Rectal Exam within Past Two Years (40+) 996 11.6 9.6-13.9 No Blood Stool Test within Past Two Years (50+) 2.383 9.7 8.4-11.1 Blood Stool Test within Past Two Years (50+) 8.77 11.5 9.3-14.1 Never Had Sigmoidoscopy or Colonoscopy (50+) 1,627 7.7 6.4-9.3 Ever Had Sigmoidoscopy or Colonoscopy (50+) 1,659 12.5 10.8-14.5 Haven't Been to the Dentist in the Past 12 Months 1,811 6.9 5.8-8.2 Been to the Dentist in the Past 12 Months 4,172 3.7 3.2-4.3 Not Taking Precautions Against West Nile Virus 1,907 6.4 5.3-7.6 Taking Precautions Against West Nile Virus 4,057 3.8 3.2-4.4 No Health Insurance (18-64) 3.66 1.8 0.9-3.7 Health Insurance (18-64) 3.897 1.9 1.5-2.4 Private Health Insurance Plan (18-64) 5.30 1.2 0.5- | | | 5.3 | | | | | | |
| No Digital Rectal Exam within Past Two Years (40+) 796 6.2 4.7-8.1 | , , | | | | | | | | |
| Digital Rectal Exam within Past Two Years (40+) 996 11.6 9.6-13.9 No Blood Stool Test within Past Two Years (50+) 2,383 9.7 8,4-11.1 Blood Stool Test within Past Two Years (50+) 877 11.5 9,3-14.1 Never Had Sigmoidoscopy or Colonoscopy (50+) 1,627 7.7 6.4-9.3 Ever Had Sigmoidoscopy or Colonoscopy (50+) 1,659 12.5 10.8-14.5 Haven't Been to the Dentist in the Past 12 Months 1,811 6.9 5.8-8.2 Been to the Dentist in the Past 12 Months 1,811 6.9 5.8-8.2 Been to the Dentist in the Past 12 Months 1,811 6.9 5.8-8.2 Been to the Dentist in the Past 12 Months 4,172 3.7 3.2-4.3 Not Taking any Precautions Against West Nile Virus 1,097 6.4 5.3-7.6 Taking Precautions Against West Nile Virus 4,057 3.8 3.2-4.4 No Health Insurance (18-64) 366 1.8 0.9-3.7 Health Insurance (18-64) 2,673 1.5 1.1-2.0 Private Health Insurance Plan (18-64) 530 1.2 0.5-2. | | | | | | | | | |
| No Blood Stool Test within Past Two Years (50+) 2,383 9,7 8.4-11.1 | | | 11.6 | | | | | | |
| Blood Stool Test within Past Two Years (50+) 877 11.5 9.3-14.1 | | 2,383 | 9.7 | 1 | | | | | |
| Never Had Sigmoidoscopy or Colonoscopy (50+) | | | | | | | | | |
| Ever Had Sigmoidoscopy or Colonoscopy (50+) 1,659 12.5 10.8-14.5 Haven't Been to the Dentist in the Past 12 Months 1,811 6.9 5.8-8.2 Been to the Dentist in the Past 12 Months 4,172 3.7 3.2-4.3 Not Taking any Precautions Against West Nile Virus 1,907 6.4 5.3-7.6 Taking Precautions Against West Nile Virus 4,057 3.8 3.2-4.4 No Health Insurance (18-64) 366 1.8 0.9-3.7 Health Insurance (18-64) 3,897 1.9 1.5-2.4 Employer Based Health Insurance Coverage (18-64) 2,673 1.5 1.1-2.0 Private Health Insurance Plan (18-64) 530 1.2 0.5-2.7 Medicard (18-64) 116 8.6 4.4-16.2 Medicaid or Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 No Flu Shot (65+) 1,08 1.263 17.3 15.0-19.8 No Flu Shot (65+) 1,263 17.3 15.0-19.8 No Penumonia Shot | | 1.627 | 7.7 | | | | | | |
| Haven't Been to the Dentist in the Past 12 Months 1,811 6.9 5.8-8.2 Been to the Dentist in the Past 12 Months 4,172 3.7 3.2-4.3 Sot Taking any Precautions Against West Nile Virus 1,907 6.4 5.3-7.6 Taking Precautions Against West Nile Virus 4,057 3.8 3.2-4.4 No Health Insurance (18-64) 366 1.8 0.9-3.7 Health Insurance (18-64) 3.897 1.9 1.5-2.4 Health Insurance Plan (18-64) 3.897 1.9 1.5-2.4 Employer Based Health Insurance Coverage (18-64) 530 1.2 0.5-2.7 Medicaid or Medical Assistance (18-64) 116 8.6 4.4-16.2 Medicaid or Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 234 2.2 1.0-4.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (55+) 1,089 18.1 15.6-20.9 No Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Nover Had Asthma 185 2.7 1.1-6.1 Former Asthma 185 2.7 1.1-6.1 Former Asthma 185 2.7 1.1-6.1 Former Asthma 19,344 3.8-4.9 Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Hower Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 192 33.3 26.2-41.3 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14. | | | | | | | | | |
| Been to the Dentist in the Past 12 Months 4,172 3.7 3.2-4.3 Not Taking any Precautions Against West Nile Virus 1,907 6.4 5.3-7.6 Taking Precautions Against West Nile Virus 4,057 3.8 3.2-4.4 No Health Insurance (18-64) 366 1.8 0.9-3.7 Health Insurance (18-64) 3.897 1.9 1.5-2.4 Employer Based Health Insurance Coverage (18-64) 2,673 1.5 1.1-2.0 Private Health Insurance Plan (18-64) 530 1.2 0.5-2.7 Medicard (18-64) 116 8.6 4.4-16.2 Medicard of Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 | | | | | | | | | |
| Not Taking any Precautions Against West Nile Virus | | | | | | | | | |
| Taking Precautions Against West Nile Virus 4,057 3.8 32-4.4 No Health Insurance (18-64) 366 1.8 0.9-3.7 Health Insurance (18-64) 3,897 1.9 1.5-2.4 Employer Based Health Insurance Coverage (18-64) 2,673 1.5 1.1-2.0 Private Health Insurance Plan (18-64) 530 1.2 0.5-2.7 Medicaid or Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 10.5 7.7-14.1 Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439< | | | | | | | | | |
| No Health Insurance (18-64) 366 1.8 0.9-3.7 Health Insurance (18-64) 3,897 1.9 1.5-2.4 | | | | | | | | | |
| Health Insurance (18-64) 3,897 1.9 1.5-2.4 | | | | | | | | | |
| Employer Based Health Insurance Coverage (18-64) 2,673 1.5 1.1-2.0 Private Health Insurance Plan (18-64) 530 1.2 0.5-2.7 Medicare (18-64) 116 8.6 4.4-16.2 Medicaid or Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 234 2.2 1.0-4.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 185 2.7 1.1-6.6 Never Had Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 5,570 | , , | | | | | | | | |
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| Medicare (18-64) 116 8.6 4.4-16.2 Medicaid or Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 234 2.2 10-4.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 <t< td=""><td></td><td></td><td></td><td></td></t<> | | | | | | | | | |
| Medicaid or Medical Assistance (18-64) 110 6.2 3.1-12.2 The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 234 2.2 1.0-4.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had, Stroke 5,794 3.9 | | | | | | | | | |
| The Military, CHAMPUS, TriCare, or the VA (18-64) 185 4.8 2.5-8.9 The Indian Health Service (18-64) 234 2.2 1.0-4.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 | | | | | | | | | |
| The Indian Health Service (18-64) 234 2.2 1.0-4.9 No Flu Shot (65+) 410 10.5 7.7-14.1 Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 | | | 4.8 | | | | | | |
| Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 | | 234 | 2.2 | | | | | | |
| Flu Shot (65+) 1,263 17.3 15.0-19.8 No Pneumonia Shot (65+) 569 10.8 8.2-13.9 Pneumonia Shot (65+) 1,089 18.1 15.6-20.9 Diabetes 518 16.6 13.2-20.6 No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 | | 410 | 10.5 | 7.7-14.1 | | | | | |
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| No Diabetes 5,473 3.8 3.3-4.3 Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0 | | 1,089 | 18.1 | | | | | | |
| Current Asthma 439 8.9 6.5-12.1 Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Outdoor Air Pollution in Past Year 4,953 | Diabetes | 518 | 16.6 | 13.2-20.6 | | | | | |
| Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past | No Diabetes | 5,473 | 3.8 | 3.3-4.3 | | | | | |
| Former Asthma 185 2.7 1.1-6.6 Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past | Current Asthma | 439 | 8.9 | 6.5-12.1 | | | | | |
| Never Had Asthma 5,347 4.4 3.8-4.9 Have Angina or Coronary Heart Disease 400 40.5 35.2-46.1 Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Outdoor Air Pollution in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 </td <td>Former Asthma</td> <td>185</td> <td>2.7</td> <td></td> | Former Asthma | 185 | 2.7 | | | | | | |
| Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Outdoor Air Pollution in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | Never Had Asthma | 5,347 | | | | | | | |
| Do not Have Angina or Coronary Heart Disease 5,570 2.5 2.1-2.9 Previously Had a Stroke 192 33.3 26.2-41.3 Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Outdoor Air Pollution in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | Have Angina or Coronary Heart Disease | 400 | 40.5 | 35.2-46.1 | | | | | |
| Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | | 5,570 | 2.5 | | | | | | |
| Never Had a Stroke 5,794 3.9 3.4-4.4 Physical, Mental, or Emotional Disability 1,240 12.2 10.3-14.4 No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | | 192 | 33.3 | | | | | | |
| No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | | 5,794 | | | | | | | |
| No Physical, Mental, or Emotional Disability 4,745 3.0 2.6-3.5 Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | Physical, Mental, or Emotional Disability | 1,240 | 12.2 | 10.3-14.4 | | | | | |
| Disability with Special Equipment Needed 444 21.5 17.2-26.4 No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | | 4,745 | 3.0 | | | | | | |
| No Disability with Special Equipment Needed 5,548 3.6 3.2-4.1 Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | • | 444 | 21.5 | 1 | | | | | |
| Four or More Hours of TV Watched per Day 1,421 8.7 7.2-10.3 Less Than Four Hours of TV Watched per Day 4,518 3.5 3.0-4.1 Sick from Poor Indoor Air Quality in Past Year 996 2.9 2.0-4.0 Not Sick from Poor Indoor Air Quality in Past Year 4,953 5.0 4.4-5.6 Sick from Outdoor Air Pollution in Past Year 419 7.8 5.6-10.9 Not Sick from Outdoor Air Pollution in Past Year 5,551 4.4 3.9-5.0 Firearm in Household 3,364 4.5 3.8-5.2 | • | | | | | | | | |
| Less Than Four Hours of TV Watched per Day4,5183.53.0-4.1Sick from Poor Indoor Air Quality in Past Year9962.92.0-4.0Not Sick from Poor Indoor Air Quality in Past Year4,9535.04.4-5.6Sick from Outdoor Air Pollution in Past Year4197.85.6-10.9Not Sick from Outdoor Air Pollution in Past Year5,5514.43.9-5.0Firearm in Household3,3644.53.8-5.2 | | | | | | | | | |
| Sick from Poor Indoor Air Quality in Past Year9962.92.0-4.0Not Sick from Poor Indoor Air Quality in Past Year4,9535.04.4-5.6Sick from Outdoor Air Pollution in Past Year4197.85.6-10.9Not Sick from Outdoor Air Pollution in Past Year5,5514.43.9-5.0Firearm in Household3,3644.53.8-5.2 | | · | | | | | | | |
| Not Sick from Poor Indoor Air Quality in Past Year4,9535.04.4-5.6Sick from Outdoor Air Pollution in Past Year4197.85.6-10.9Not Sick from Outdoor Air Pollution in Past Year5,5514.43.9-5.0Firearm in Household3,3644.53.8-5.2 | | | | 1 | | | | | |
| Sick from Outdoor Air Pollution in Past Year4197.85.6-10.9Not Sick from Outdoor Air Pollution in Past Year5,5514.43.9-5.0Firearm in Household3,3644.53.8-5.2 | | | | | | | | | |
| Not Sick from Outdoor Air Pollution in Past Year5,5514.43.9-5.0Firearm in Household3,3644.53.8-5.2 | · | | | 1 | | | | | |
| Firearm in Household 3,364 4.5 3.8-5.2 | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| | No Firearms in Household | 2,516 | 4.7 | 3.9-5.6 | | | | | |

| Table 79 (continued) | | | | | | | | | | |
|--|---------------|--------|----------|--|--|--|--|--|--|--|
| Previously Had a Heart Attack for Selected Health Behaviors and Conditions, 2004 | | | | | | | | | | |
| | % Had Heart | | | | | | | | | |
| Health Behavior or Condition | # Respondents | Attack | 95% CI | | | | | | | |
| Loaded and Unlocked Firearm in Household | 273 | 5.0 | 3.1-8.0 | | | | | | | |
| No Loaded and Unlocked Firearms in Household | 5,569 | 4.5 | 4.0-5.1 | | | | | | | |
| No Birth Control (females 18-44 & males 18-59) | 327 | 2.5 | 1.2-5.0 | | | | | | | |
| Birth Control (females 18-44 & males 18-59) | 1,662 | 0.9 | 0.6-1.4 | | | | | | | |
| Never Been Tested for HIV (18-64) | 3,071 | 1.8 | 1.4-2.3 | | | | | | | |
| Been Tested for HIV (18-64) | 1,142 | 2.4 | 1.7-3.5 | | | | | | | |
| Sunburn in Past 12 Months | 2,127 | 1.9 | 1.4-2.5 | | | | | | | |
| No Sunburn in Past 12 Months | 3,858 | 6.6 | 5.9-7.5 | | | | | | | |
| Military Veteran | 993 | 10.6 | 8.7-12.7 | | | | | | | |
| Not a Military Veteran | 5,000 | 3.4 | 3.0-3.9 | | | | | | | |

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

ANGINA OR CORONARY HEART DISEASE

Definition: Respondents who answered "yes" to the question "Has a doctor, nurse, or other health professional ever told you that you have angina or coronary heart disease?"

Prevalence of angina or coronary heart disease

- South Dakota 5.3%
- o There is no nationwide median for having angina or coronary heart disease

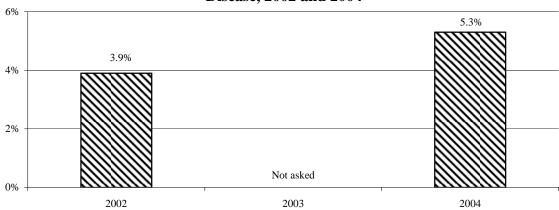
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for having angina or coronary heart disease.

Trend Analysis

This question has only been asked two years, 2002 and 2004. There was an increase in the percent of respondents who stated they have been told they have angina or coronary heart disease from 2002 to 2004.

Figure 53
Percent of Respondents Who Have Angina or Coronary Heart
Disease, 2002 and 2004



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2002 and 2004

Demographics

Gender A significantly higher percentage of males have been told they have angina or

coronary heart disease than females. This gender difference is evident in specific demographic categories such as those 75 and older, whites, and those who are

married.

Age The prevalence of having been told they have heart disease increases as age

increases with significant increases occurring at the 55-64 and 65-74 age groups.

Race There are no racial differences demonstrated by the available data.

Region There are no regional differences observed from the available data.

Household Income The prevalence of having been told they have heart disease does not follow a pattern as household income increases.

Education

Heart disease prevalence decreases as education increases. This includes a significant decrease as the some high school education level is obtained.

Employment Status

Those who are unable to work or retired demonstrate a very high prevalence of having been told they have heart disease, while those who are employed for wages or a student show a very low prevalence.

Marital Status Those who are widowed exhibit a very high prevalence of having been told they have heart disease, while those who have never been married show a very low prevalence.

| | Table 80 Respondents Who Have Angina or Coronary Heart Disease, 2004 | | | | | | | | | |
|--------------------------|---|-------|-------------|---------------|------|-------------|----------------|------|-------------|--|
| Respon | idents W | | | or Coro | | | ase, 200 | | | |
| | "" | Total | | // T D | Male | | Female 0.70 CT | | | |
| | # Resp. | % | 95% CI | # Resp. | % | 95% CI | # Resp. | % | 95% CI | |
| Total | 5,975 | 5.3 | (4.8-6.0) | 2,444 | 6.3 | (5.4-7.4) | 3,531 | 4.4 | (3.7-5.1) | |
| Age | | | | | | | | | | |
| 18-24 | 325 | 0.0 | - | 140 | 0.0 | | 185 | 0.0 | - | |
| 25-34 | 763 | 0.5 | (0.2-1.7) | 326 | 0.5 | (0.1-3.2) | 437 | 0.6 | (0.1-2.4) | |
| 35-44 | 1,002 | 2.0 | (1.2-3.4) | 415 | 3.0 | (1.5-5.7) | 587 | 1.1 | (0.5-2.4) | |
| 45-54 | 1,249 | 3.4 | (2.4-4.9) | 549 | 4.7 | (3.0-7.3) | 700 | 2.1 | (1.2-3.7) | |
| 55-64 | 945 | 7.0 | (5.3-9.1) | 398 | 8.5 | (5.9-12.1) | 547 | 5.5 | (3.7-8.3) | |
| 65-74 | 871 | 15.1 | (12.6-18.1) | 361 | 19.2 | (14.9-24.3) | 510 | 11.7 | (8.9-15.1) | |
| 75+ | 800 | 19.4 | (16.4-22.8) | 249 | 25.4 | (19.8-32.0) | 551 | 15.6 | (12.4-19.4) | |
| Race | | | | | | | | | | |
| White | 5,353 | 5.3 | (4.7-6.0) | 2,207 | 6.4 | (5.4-7.5) | 3,146 | 4.3 | (3.6-5.0) | |
| American Indian | 417 | 6.8 | (4.2-10.9) | 156 | 8.4 | (3.9-17.1) | 261 | 5.6 | (3.2-9.6) | |
| Region | | | | | | | | | | |
| Southeast | 1,476 | 4.9 | (4.0-6.2) | 608 | 6.0 | (4.4-8.1) | 868 | 4.0 | (2.9-5.4) | |
| Northeast | 1,358 | 5.9 | (4.7-7.3) | 548 | 7.5 | (5.6-10.0) | 810 | 4.4 | (3.2-5.9) | |
| Central | 1,122 | 5.5 | (4.3-7.0) | 445 | 5.4 | (3.7-7.8) | 677 | 5.6 | (4.0-7.8) | |
| West | 1,395 | 5.5 | (4.4-6.7) | 581 | 6.4 | (4.8-8.6) | 814 | 4.5 | (3.3-6.1) | |
| American Indian Counties | 624 | 4.7 | (3.3-6.5) | 262 | 5.5 | (3.4-8.6) | 362 | 3.9 | (2.3-6.3) | |
| Household Income | | | , , , | | | , | | | ` | |
| Less than \$10,000 | 294 | 7.2 | (4.5-11.2) | * | * | * | * | * | * | |
| \$10,000-\$14,999 | 362 | 13.4 | (9.8-18.1) | 100 | 15.6 | (8.8-26.0) | 262 | 12.3 | (8.4-17.4) | |
| \$15,000-\$19,999 | 487 | 8.6 | (6.2-11.8) | 179 | 10.2 | (6.3-16.1) | 308 | 7.3 | (4.7-11.2) | |
| \$20,000-\$24,999 | 663 | 8.9 | (6.8-11.7) | 255 | 11.3 | (7.7-16.4) | 408 | 6.7 | (4.7-9.6) | |
| \$25,000-\$34,999 | 965 | 5.3 | (3.9-7.1) | 427 | 6.6 | (4.5-9.5) | 538 | 3.8 | (2.4-6.1) | |
| \$35,000-\$49,999 | 1,026 | 3.9 | (2.9-5.3) | 460 | 5.0 | (3.4-7.3) | 566 | 2.8 | (1.6-4.7) | |
| \$50,000-\$74,999 | 891 | 2.2 | (1.3-3.5) | 400 | 3.2 | (1.8-5.6) | 491 | 1.2 | (0.5-3.0) | |
| \$75,000+ | 710 | 3.2 | (2.1-4.8) | 374 | 4.0 | (2.5-6.4) | 336 | 1.9 | (0.8-4.4) | |
| Education | | | , | | | , | | | , | |
| 8th Grade or Less | 248 | 17.9 | (13.0-24.1) | 128 | 15.9 | (9.9-24.5) | 120 | 20.9 | (13.6-30.7) | |
| Some High School | 309 | 6.1 | (3.8-9.7) | 126 | 8.9 | (4.9-15.5) | 183 | 3.3 | (1.6-6.4) | |
| High School or G.E.D. | 1,959 | 5.9 | (4.9-7.1) | 836 | 6.4 | (4.9-8.3) | 1,123 | 5.4 | (4.1-7.0) | |
| Some Post-High School | 1,704 | 5.1 | (4.1-6.3) | 630 | 6.4 | (4.7-8.7) | 1,074 | 4.0 | (3.0-5.4) | |
| College Graduate | 1,748 | 3.5 | (2.7-4.6) | 721 | 4.5 | (3.2-6.4) | 1,027 | 2.6 | (1.7-3.8) | |

| Table 80 (continued) Respondents Who Have Angina or Coronary Heart Disease, 2004 | | | | | | | | | |
|--|---------|-------|-------------|---------|------|-------------|---------|------|-------------|
| | | Total | | | Male | | | Fema | le |
| | # Resp. | % | 95% CI | # Resp. | % | 95% CI | # Resp. | % | 95% CI |
| Employment Status | | | | | | | | | |
| Employed for Wages | 2,976 | 2.3 | (1.7-2.9) | 1,216 | 3.0 | (2.1-4.1) | 1,760 | 1.5 | (1.0-2.3) |
| Self-employed | 808 | 3.6 | (2.5-5.1) | 528 | 4.5 | (3.0-6.7) | 280 | 1.5 | (0.6-3.3) |
| Unemployed | 140 | 0.0 | - | * | * | * | * | * | * |
| Homemaker | 279 | 4.3 | (2.3-8.0) | * | * | * | * | * | * |
| Student | 130 | 0.3 | (0.0-1.8) | * | * | * | * | * | * |
| Retired | 1,462 | 17.4 | (15.2-19.8) | 514 | 22.6 | (18.8-27.1) | 948 | 13.5 | (11.3-16.2) |
| Unable to Work | 178 | 18.2 | (12.4-25.8) | * | * | * | * | * | * |
| Marital Status | | | | | | | | | |
| Married/Unmarried Couple | 3,573 | 5.3 | (4.5-6.1) | 1,537 | 7.2 | (6.0-8.7) | 2,036 | 3.3 | (2.6-4.2) |
| Divorced/Separated | 796 | 4.9 | (3.4-6.9) | 345 | 5.7 | (3.4-9.5) | 451 | 4.2 | (2.6-6.6) |
| Widowed | 865 | 16.4 | (13.8-19.4) | 159 | 24.6 | (18.0-32.7) | 706 | 14.4 | (11.7-17.7) |
| Never Married | 729 | 0.9 | (0.5-1.8) | 400 | 1.0 | (0.4-2.4) | 329 | 0.8 | (0.3-2.0) |

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

Further Analysis

Following are data illustrating the percent of those who were have angina or coronary heart disease for various health behaviors and conditions. For example, 10 percent of respondents who stated they were a former smoker have angina or coronary heart disease, while 3.7 percent of respondents who stated they never smoked have angina or coronary heart disease.

| Table 81 | | | | | | | | | | |
|--|---------------|-----------------|-----------|--|--|--|--|--|--|--|
| Have Angina or Coronary Heart Disease for Selected Health Behaviors and Conditions, 2004 | | | | | | | | | | |
| Health Behavior or Condition | # Respondents | % Heart Disease | 95% CI | | | | | | | |
| Fair or Poor Health Status | 924 | 18.8 | 16.1-21.9 | | | | | | | |
| Excellent, Very Good, or Good Health Status | 5,038 | 3.4 | 3.0-4.0 | | | | | | | |
| Physical Health Not Good for 30 Days of the Past 30 | 374 | 18.7 | 14.6-23.6 | | | | | | | |
| Physical Health Not Good for 0-29 Days of the Past 30 | 5,549 | 4.5 | 4.0-5.1 | | | | | | | |
| Mental Health Not Good for 20-30 Days of the Past 30 | 335 | 8.0 | 5.2-12.2 | | | | | | | |
| Mental Health Not Good for 0-19 Days of the Past 30 | 5,582 | 5.2 | 4.6-5.8 | | | | | | | |
| Usual Activities Unattainable for 10-30 Days of the Past 30 | 379 | 14.6 | 11.1-19.1 | | | | | | | |
| Usual Activities Unattainable for 0-9 Days of the Past 30 | 5,578 | 4.7 | 4.2-5.3 | | | | | | | |
| Obese $(BMI = 30.0+)$ | 1,508 | 7.5 | 6.1-9.1 | | | | | | | |
| Overweight (BMI = 25.0-29.9) | 2,215 | 5.4 | 4.6-6.5 | | | | | | | |
| Recommended Weight (BMI = 18.5-24.9) | 1,994 | 4.1 | 3.3-5.1 | | | | | | | |
| No Leisure Time Physical Activity | 1,274 | 8.2 | 6.6-10.0 | | | | | | | |
| Leisure Time Physical Activity | 4,698 | 4.7 | 4.1-5.4 | | | | | | | |
| Current Smoker | 1,198 | 4.5 | 3.4-5.9 | | | | | | | |
| Former Smoker | 1,562 | 10.0 | 8.4-11.8 | | | | | | | |
| Never Smoked | 3,206 | 3.7 | 3.1-4.4 | | | | | | | |
| Drank Alcohol in Past 30 Days | 3,213 | 3.8 | 3.2-4.5 | | | | | | | |
| No Alcohol in Past 30 Days | 2,727 | 7.5 | 6.5-8.7 | | | | | | | |
| Binge Drinker | 776 | 1.8 | 1.0-3.0 | | | | | | | |
| Not a Binge Drinker | 5,147 | 6.1 | 5.4-6.8 | | | | | | | |
| Heavy Drinker | 203 | 3.4 | 1.6-7.4 | | | | | | | |
| Not a Heavy Drinker | 5,700 | 5.4 | 4.8-6.1 | | | | | | | |
| No Mammogram within Past Two Years (40+) | 637 | 6.6 | 4.8-9.0 | | | | | | | |
| Mammogram within Past Two Years (40+) | 1,977 | 6.8 | 5.7-8.2 | | | | | | | |

Table 81 (continued) Have Angina or Coronary Heart Disease for Selected Health Behaviors and Conditions, 2004

| Health Behavior or Condition | # Respondents | % Heart Disease | 95% CI |
|--|---------------|-----------------|-----------|
| No Clinical Breast Exam within Past Two Years | 665 | 7.1 | 5.2-9.5 |
| Clinical Breast Exam within Past Two Years | 2,838 | 3.8 | 3.2-4.6 |
| Insufficient Cervical Cancer Screening | 391 | 6.7 | 4.5-9.7 |
| Sufficient Cervical Cancer Screening | 2,200 | 2.2 | 1.7-3.0 |
| No PSA Test within Past Two Years (40+) | 781 | 5.3 | 3.8-7.3 |
| PSA Test within Past Two Years (40+) | 951 | 14.1 | 11.8-16.8 |
| No Digital Rectal Exam within Past Two Years (40+) | 794 | 5.4 | 4.0-7.3 |
| Digital Rectal Exam within Past Two Years (40+) | 992 | 13.6 | 11.4-16.2 |
| No Blood Stool Test within Past Two Years (50+) | 2,372 | 10.3 | 9.0-11.7 |
| Blood Stool Test within Past Two Years (50+) | 873 | 14.1 | 11.6-17.1 |
| Never Had Sigmoidoscopy or Colonoscopy (50+) | 1,620 | 7.5 | 6.1-9.1 |
| Ever Had Sigmoidoscopy or Colonoscopy (50+) | 1,652 | 14.8 | 12.9-16.9 |
| Haven't Been to the Dentist in the Past 12 Months | 1,801 | 7.1 | 5.9-8.4 |
| Been to the Dentist in the Past 12 Months | 4,163 | 4.7 | 4.0-5.4 |
| Not Taking any Precautions Against West Nile Virus | 1,900 | 6.7 | 5.6-8.0 |
| Taking Precautions Against West Nile Virus | 4,047 | 4.7 | 4.1-5.5 |
| No Health Insurance (18-64) | 366 | 1.5 | 0.7-3.5 |
| Health Insurance (18-64) | 3,885 | 2.6 | 2.1-3.2 |
| Employer Based Health Insurance Coverage (18-64) | 2,664 | 2.2 | 1.6-2.9 |
| Private Health Insurance Plan (18-64) | 529 | 1.6 | 0.8-3.4 |
| Medicare (18-64) | 115 | 10.1 | 5.4-18.0 |
| Medicaid or Medical Assistance (18-64) | 109 | 4.5 | 1.8-10.5 |
| The Military, CHAMPUS, TriCare, or the VA (18-64) | 185 | 7.4 | 4.1-13.0 |
| The Indian Health Service (18-64) | 234 | 1.9 | 0.8-4.3 |
| No Flu Shot (65+) | 407 | 12.3 | 9.0-16.7 |
| Flu Shot (65+) | 1,259 | 18.9 | 16.5-21.5 |
| No Pneumonia Shot (65+) | 564 | 10.0 | 7.3-13.5 |
| Pneumonia Shot (65+) | 1,086 | 20.8 | 18.1-23.7 |
| Diabetes | 517 | 20.6 | 16.7-25.2 |
| No Diabetes | 5,455 | 4.3 | 3.8-4.9 |
| Current Asthma | 433 | 12.3 | 9.3-16.0 |
| Former Asthma | 185 | 6.0 | 3.3-10.8 |
| Never Had Asthma | 5,334 | 4.8 | 4.2-5.4 |
| Previously Had a Heart Attack | 362 | 47.8 | 42.0-53.7 |
| Never Had a Heart Attack | 5,608 | 3.3 | 2.8-3.9 |
| Previously Had a Stroke | 189 | 26.5 | 20.0-34.2 |
| Never Had a Stroke | 5,781 | 4.9 | 4.3-5.5 |
| Physical, Mental, or Emotional Disability | 1,227 | 15.5 | 13.3-18.0 |
| No Physical, Mental, or Emotional Disability | 4,739 | 3.3 | 2.8-3.8 |
| Disability with Special Equipment Needed | 436 | 22.8 | 18.4-27.8 |
| No Disability with Special Equipment Needed | 5,537 | 4.4 | 3.8-5.0 |
| Four or More Hours of TV Watched per Day | 1,412 | 10.6 | 8.9-12.5 |
| Less Than Four Hours of TV Watched per Day | 4,510 | 4.0 | 3.4-4.6 |
| Sick from Poor Indoor Air Quality in Past Year | 993 | 6.0 | 4.6-7.8 |
| Not Sick from Poor Indoor Air Quality in Past Year | 4,938 | 5.2 | 4.6-5.9 |
| Sick from Outdoor Air Pollution in Past Year | 416 | 9.1 | 6.6-12.6 |
| Not Sick from Outdoor Air Pollution in Past Year | 5,536 | 5.1 | 4.5-5.7 |
| Firearm in Household | 3,352 | 4.7 | 4.0-5.5 |
| No Firearms in Household | 2,510 | 6.2 | 5.2-7.3 |

Table 81 (continued) Have Angina or Coronary Heart Disease for Selected Health Behaviors and Conditions, 2004

| Health Behavior or Condition | # Respondents | % Heart Disease | 95% CI |
|--|---------------|-----------------|-----------|
| Loaded and Unlocked Firearm in Household | 274 | 5.4 | 3.0-9.4 |
| No Loaded and Unlocked Firearms in Household | 5,550 | 5.3 | 4.7-5.9 |
| No Birth Control (females 18-44 & males 18-59) | 325 | 2.3 | 1.0-5.1 |
| Birth Control (females 18-44 & males 18-59) | 1,659 | 2.0 | 1.4-2.9 |
| Never Been Tested for HIV (18-64) | 3,064 | 2.3 | 1.8-2.9 |
| Been Tested for HIV (18-64) | 1,137 | 3.0 | 2.1-4.3 |
| Sunburn in Past 12 Months | 2,122 | 2.4 | 1.8-3.2 |
| No Sunburn in Past 12 Months | 3,843 | 7.6 | 6.7-8.6 |
| Military Veteran | 989 | 12.4 | 10.3-14.9 |
| Not a Military Veteran | 4,985 | 3.9 | 3.4-4.5 |

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

PREVIOUSLY HAD A STROKE

Definition: Respondents who answered "yes" to the question "Has a doctor, nurse, or other health professional ever told you that you have previously had a stroke?"

Prevalence of previously had a stroke

- South Dakota 2.3%
- o There is no nationwide median for previously had a stroke

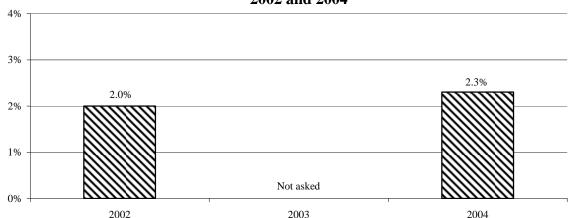
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for previously had a stroke.

Trend Analysis

This question has only been asked two years, 2002 and 2004. There was an increase in the percent of respondents who stated they have previously had a stroke from 2002 to 2004.

Figure 54
Percent of Respondents Who Have Previously Had a Stroke, 2002 and 2004



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2002 and 2004

Demographics

Gender There is no gender difference exhibited by the available data for having had a

stroke.

Age The prevalence of having had a stroke increases as age increases. This includes

significant increases occurring when the 45-54 and 65-74 age groups are reached.

Race There are no racial differences demonstrated by the available data.

Region There are no regional differences observed from the available data.

Region There are no regional differences observed from the available data.

Household The prevalence of having had a stroke decreases for males as household income increases. Females in the higher income groups do generally have a lower prevalence than those in the lower income groups, but the steady decline over all

income groups is not as evident for females as it is for males.

Education Stroke prevalence decreases as education increases. However, this is much more

evident in females than males.

Employment Status

Those who are unable to work, retired, or unemployed demonstrate a very high prevalence of having had a stroke, while those who are employed for wages, self-employed, or a homemaker show a very low prevalence.

Marital Status Those who are widowed exhibit a very high prevalence of having had a stroke, while those who have never been married show a very low prevalence.

| | _ | _ | | ole 82 | | | _ | | |
|--------------------------------|---------|-------|-------------|-----------|------|----------------------|---------|------|-------------------------|
| | Respon | | Who Previ | iously Ha | | troke, 2004 | 4 | Т. | • |
| | # D | Total | 050/ CT | # D | Male | 050/ CT | # D | Fema | |
| TD 4.1 | # Resp. | % | 95% CI | # Resp. | % | 95% CI | # Resp. | % | 95% CI |
| Total | 5,991 | 2.3 | (2.0-2.7) | 2,453 | 2.1 | (1.6-2.7) | 3,538 | 2.5 | (2.0-3.1) |
| Age | 22.5 | 0.0 | | 1.10 | | | 107 | | |
| 18-24 | 325 | 0.0 | - (0.0.0.5) | 140 | 0.0 | - | 185 | 0.0 | - |
| 25-34 | 762 | 0.1 | (0.0-0.5) | 326 | 0.1 | (0.0-1.0) | 436 | 0.1 | (0.0-0.4) |
| 35-44 | 1,003 | 0.4 | (0.2-0.9) | 415 | 0.2 | (0.0-1.2) | 588 | 0.7 | (0.3-1.6) |
| 45-54 | 1,252 | 1.6 | (1.0-2.6) | 552 | 1.4 | (0.7-2.9) | 700 | 1.9 | (1.0-3.3) |
| 55-64 | 951 | 3.1 | (2.1-4.6) | 401 | 3.5 | (2.0-6.1) | 550 | 2.7 | (1.6-4.6) |
| 65-74 | 871 | 6.4 | (4.7-8.5) | 361 | 6.6 | (4.2-10.1) | 510 | 6.2 | (4.2-9.2) |
| 75+ | 807 | 9.2 | (7.1-11.8) | 252 | 9.6 | (6.3-14.6) | 555 | 8.9 | (6.5-12.1) |
| Race | | | | | | | | | |
| White | 5,369 | 2.2 | (1.8-2.6) | 2,215 | 2.0 | (1.5-2.6) | 3,154 | 2.4 | (1.9-3.0) |
| American Indian | 418 | 3.9 | (2.3-6.7) | 158 | 5.2 | (2.4-10.7) | 260 | 3.0 | (1.4-6.3) |
| Region | | | | | | | | | |
| Southeast | 1,482 | 2.1 | (1.5-2.9) | 610 | 2.0 | (1.2-3.3) | 872 | 2.2 | (1.5-3.4) |
| Northeast | 1,361 | 2.2 | (1.6-3.1) | 548 | 2.3 | (1.4-3.8) | 813 | 2.2 | (1.4-3.3) |
| Central | 1,127 | 2.7 | (1.9-3.8) | 450 | 2.4 | (1.4-4.2) | 677 | 3.0 | (1.9-4.6) |
| West | 1,396 | 2.5 | (1.8-3.3) | 582 | 2.0 | (1.2-3.2) | 814 | 3.0 | (2.1-4.3) |
| American Indian Counties | 625 | 2.3 | (1.3-3.9) | 263 | 2.2 | (0.9-5.2) | 362 | 2.4 | (1.2-4.6) |
| Household Income | | | | | | | | | |
| Less than \$10,000 | 296 | 5.5 | (3.4-8.6) | * | * | * | * | * | * |
| \$10,000-\$14,999 | 363 | 7.1 | (4.7-10.5) | 100 | 7.7 | (3.6-15.6) | 263 | 6.7 | (4.2-10.6) |
| \$15,000-\$19,999 | 490 | 4.3 | (2.8-6.5) | 180 | 3.0 | (1.4-6.6) | 310 | 5.3 | (3.1-8.7) |
| \$20,000-\$24,999 | 666 | 3.9 | (2.7-5.7) | 256 | 2.8 | (1.5-5.3) | 410 | 5.0 | (3.2-7.7) |
| \$25,000-\$34,999 | 963 | 1.9 | (1.2-3.1) | 427 | 2.4 | (1.2-4.6) | 536 | 1.4 | (0.7-2.7) |
| \$35,000-\$49,999 | 1,031 | 0.9 | (0.4-1.8) | 465 | 1.5 | (0.7-3.3) | 566 | 0.2 | (0.0-0.7) |
| \$50,000-\$74,999 | 892 | 1.0 | (0.6-1.8) | 400 | 1.5 | (0.8-3.0) | 492 | 0.5 | (0.2-1.5) |
| \$75,000+ | 711 | 0.6 | (0.3-1.4) | 375 | 0.8 | (0.3-2.1) | 336 | 0.4 | (0.1-1.7) |
| Education | | | | | | | | | |
| 8th Grade or Less | 251 | 7.3 | (4.5-11.7) | 129 | 4.3 | (1.7-10.3) | 122 | 11.9 | (6.8-20.0) |
| Some High School | 311 | 4.3 | (2.6-7.2) | 127 | 4.5 | (2.0-9.9) | 184 | 4.1 | (2.2-7.6) |
| High School or G.E.D. | 1,966 | 2.9 | (2.2-3.7) | 840 | 2.0 | (1.3-3.1) | 1,126 | 3.8 | (2.8-5.2) |
| Some Post-High School | 1,706 | 1.7 | (1.2-2.4) | 632 | 1.5 | (0.9-2.6) | 1,074 | 1.9 | (1.2-2.8) |
| College Graduate | 1,749 | 1.4 | (0.9-2.1) | 722 | 2.2 | (1.3-3.5) | 1,027 | 0.7 | (0.4-1.3) |
| Employment Status | , | | (232) | | | (12 2 12) | ,- ,- | | (2) |
| Employed for Wages | 2,980 | 0.7 | (0.5-1.1) | 1,219 | 0.6 | (0.3-1.2) | 1,761 | 0.8 | (0.5-1.4) |
| Self-employed | 809 | 0.8 | (0.4-1.7) | 529 | 1.2 | (0.6-2.4) | 280 | 0.0 | (0.5 1.4) |
| Unemployed | 141 | 3.1 | (1.3-7.2) | * | * | * | * | * | * |
| Homemaker | 279 | 2.7 | (1.1-6.2) | * | * | * | * | * | * |
| Student | 130 | 0.0 | (1.1 0.2) | * | * | * | * | * | * |
| Retired | 1,470 | 7.9 | (6.5-9.7) | 517 | 8.7 | (6.3-11.9) | 953 | 7.4 | (5.7-9.5) |
| Unable to Work | 180 | 9.5 | (6.0-14.5) | * | * | * | * | * | * |
| Marital Status | 100 | 7.5 | (0.0 17.0) | | | | | | |
| Married/Unmarried Couple | 3,580 | 2.0 | (1.6-2.5) | 1,542 | 2.2 | (1.6-3.1) | 2,038 | 1.7 | (1.2-2.4) |
| Divorced/Separated | 800 | 3.0 | (2.0-4.6) | 347 | 3.0 | | 453 | 3.0 | |
| Widowed | 871 | 8.5 | (6.7-10.9) | 161 | 7.6 | (1.6-5.6) (4.1-13.5) | 710 | 8.8 | (1.7-5.2) (6.7-11.4) |
| Never Married | 728 | 0.4 | (0.2-1.0) | 400 | 0.6 | (0.2-1.5) | 328 | 0.2 | (0.0-0.8) |
| Note: *Results based on sample | | | | | 0.0 | (0.2-1.3) | 328 | 0.2 | (0.0-0.8) |

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

Further Analysis

Following are data illustrating the percent of those who previously had a stroke for various health behaviors and conditions. For example, 6.7 percent of respondents who stated they have diabetes previously had a stroke, while 2.0 percent of respondents who stated they do not have diabetes previously had a stroke.

| Table 83 Previously Had a Stroke for Selected Health Behaviors and Conditions, 2004 | | | | | | | | | |
|---|---------------|--------------|----------|--|--|--|--|--|--|
| Health Behavior or Condition | # Respondents | % Had Stroke | 95% CI | | | | | | |
| Fair or Poor Health Status | 933 | 8.7 | 6.9-10.8 | | | | | | |
| Excellent, Very Good, or Good Health Status | 5,045 | 1.4 | 1.1-1.8 | | | | | | |
| Physical Health Not Good for 30 Days of the Past 30 | 383 | 8.7 | 6.1-12.2 | | | | | | |
| Physical Health Not Good for 0-29 Days of the Past 30 | 5,556 | 1.9 | 1.6-2.3 | | | | | | |
| Mental Health Not Good for 20-30 Days of the Past 30 | 338 | 4.1 | 2.4-6.9 | | | | | | |
| Mental Health Not Good for 0-19 Days of the Past 30 | 5,595 | 2.2 | 1.9-2.6 | | | | | | |
| Usual Activities Unattainable for 10-30 Days of the Past 30 | 386 | 6.6 | 4.4-9.7 | | | | | | |
| Usual Activities Unattainable for 0-9 Days of the Past 30 | 5,586 | 2.0 | 1.7-2.4 | | | | | | |
| Obese (BMI = $30.0+$) | 1,515 | 2.6 | 1.9-3.6 | | | | | | |
| Overweight (BMI = 25.0-29.9) | 2,220 | 2.5 | 2.0-3.2 | | | | | | |
| Recommended Weight (BMI = 18.5-24.9) | 1,998 | 2.0 | 1.5-2.7 | | | | | | |
| No Leisure Time Physical Activity | 1,282 | 5.2 | 4.0-6.7 | | | | | | |
| Leisure Time Physical Activity | 4,707 | 1.6 | 1.3-2.0 | | | | | | |
| Current Smoker | 1,199 | 2.7 | 1.9-3.7 | | | | | | |
| Former Smoker | 1,572 | 3.3 | 2.5-4.4 | | | | | | |
| Never Smoked | 3,211 | 1.8 | 1.4-2.3 | | | | | | |
| Drank Alcohol in Past 30 Days | 3,219 | 1.3 | 0.9-1.7 | | | | | | |
| No Alcohol in Past 30 Days | 2,736 | 3.8 | 3.2-4.6 | | | | | | |
| Binge Drinker | 776 | 0.9 | 0.5-1.6 | | | | | | |
| Not a Binge Drinker | 5,162 | 2.6 | 2.2-3.1 | | | | | | |
| Heavy Drinker | 203 | 1.0 | 0.3-3.5 | | | | | | |
| Not a Heavy Drinker | 5,715 | 2.4 | 2.0-2.8 | | | | | | |
| No Mammogram within Past Two Years (40+) | 642 | 4.6 | 3.2-6.7 | | | | | | |
| Mammogram within Past Two Years (40+) | 1,980 | 3.7 | 2.9-4.7 | | | | | | |
| No Clinical Breast Exam within Past Two Years | 667 | 3.7 | 2.5-5.5 | | | | | | |
| Clinical Breast Exam within Past Two Years | 2,841 | 2.2 | 1.8-2.9 | | | | | | |
| Insufficient Cervical Cancer Screening | 395 | 3.9 | 2.4-6.5 | | | | | | |
| Sufficient Cervical Cancer Screening | 2,203 | 1.3 | 0.9-1.8 | | | | | | |
| No PSA Test within Past Two Years (40+) | 784 | 3.7 | 2.6-5.4 | | | | | | |
| PSA Test within Past Two Years (40+) | 955 | 3.5 | 2.4-5.0 | | | | | | |
| No Digital Rectal Exam within Past Two Years (40+) | 798 | 3.6 | 2.5-5.2 | | | | | | |
| Digital Rectal Exam within Past Two Years (40+) | 996 | 3.4 | 2.4-4.8 | | | | | | |
| No Blood Stool Test within Past Two Years (50+) | 2,384 | 5.0 | 4.1-6.0 | | | | | | |
| Blood Stool Test within Past Two Years (50+) | 876 | 5.4 | 4.0-7.3 | | | | | | |
| Never Had Sigmoidoscopy or Colonoscopy (50+) | 1,627 | 4.0 | 3.0-5.2 | | | | | | |
| Ever Had Sigmoidoscopy or Colonoscopy (50+) | 1,660 | 6.2 | 5.0-7.6 | | | | | | |
| Haven't Been to the Dentist in the Past 12 Months | 1,811 | 4.0 | 3.2-5.0 | | | | | | |
| Been to the Dentist in the Past 12 Months | 4,169 | 1.6 | 1.3-2.0 | | | | | | |
| Not Taking any Precautions Against West Nile Virus | 1,908 | 3.0 | 2.3-3.9 | | | | | | |
| Taking Precautions Against West Nile Virus | 4,056 | 2.0 | 1.6-2.5 | | | | | | |
| No Health Insurance (18-64) | 366 | 0.8 | 0.3-2.1 | | | | | | |
| Health Insurance (18-64) | 3,894 | 1.0 | 0.8-1.4 | | | | | | |

| Table 83 (continued) Previously Had a Stroke for Selected Health Behaviors and Conditions, 2004 | | | | | | |
|---|---------------|--------------|-----------|--|--|--|
| Health Behavior or Condition | # Respondents | % Had Stroke | 95% CI | | | |
| Employer Based Health Insurance Coverage (18-64) | 2,670 | 0.8 | 0.6-1.3 | | | |
| Private Health Insurance Plan (18-64) | 529 | 0.7 | 0.3-1.7 | | | |
| Medicare (18-64) | 117 | 5.9 | 3.0-11.6 | | | |
| Medicaid or Medical Assistance (18-64) | 110 | 3.9 | 1.8-8.5 | | | |
| The Military, CHAMPUS, TriCare, or the VA (18-64) | 185 | 0.4 | 0.1-1.7 | | | |
| The Indian Health Service (18-64) | 234 | 0.9 | 0.3-2.9 | | | |
| No Flu Shot (65+) | 411 | 5.1 | 3.2-8.1 | | | |
| Flu Shot (65+) | 1,262 | 8.7 | 7.0-10.7 | | | |
| No Pneumonia Shot (65+) | 569 | 4.9 | 3.3-7.2 | | | |
| Pneumonia Shot (65+) | 1,088 | 9.3 | 7.4-11.6 | | | |
| Diabetes | 518 | 6.7 | 4.7-9.5 | | | |
| No Diabetes | 5,470 | 2.0 | 1.7-2.4 | | | |
| Current Asthma | 438 | 4.0 | 2.6-6.0 | | | |
| Former Asthma | 184 | 0.7 | 0.2-2.6 | | | |
| Never Had Asthma | 5,346 | 2.2 | 1.9-2.7 | | | |
| Previously Had a Heart Attack | 369 | 16.8 | 12.9-21.5 | | | |
| Never Had a Heart Attack | 5,617 | 1.6 | 1.3-2.0 | | | |
| Have Angina or Coronary Heart Disease | 401 | 11.3 | 8.3-15.1 | | | |
| Do not Have Angina or Coronary Heart Disease | 5,569 | 1.8 | 1.5-2.1 | | | |
| Physical, Mental, or Emotional Disability | 1,240 | 7.7 | 6.3-9.5 | | | |
| No Physical, Mental, or Emotional Disability | 4,743 | 1.2 | 0.9-1.5 | | | |
| Disability with Special Equipment Needed | 443 | 14.2 | 11.0-18.2 | | | |
| No Disability with Special Equipment Needed | 5,546 | 1.6 | 1.3-2.0 | | | |
| Four or More Hours of TV Watched per Day | 1,422 | 5.1 | 4.0-6.4 | | | |
| Less Than Four Hours of TV Watched per Day | 4,518 | 1.6 | 1.3-2.0 | | | |
| Sick from Poor Indoor Air Quality in Past Year | 996 | 1.7 | 1.0-2.7 | | | |
| Not Sick from Poor Indoor Air Quality in Past Year | 4,950 | 2.5 | 2.1-2.9 | | | |
| Sick from Outdoor Air Pollution in Past Year | 418 | 3.0 | 1.7-5.1 | | | |
| Not Sick from Outdoor Air Pollution in Past Year | 5,549 | 2.3 | 1.9-2.7 | | | |
| Firearm in Household | 3,362 | 1.7 | 1.4-2.2 | | | |
| No Firearms in Household | 2,515 | 3.2 | 2.6-4.0 | | | |
| Loaded and Unlocked Firearm in Household | 272 | 2.0 | 0.9-4.4 | | | |
| No Loaded and Unlocked Firearms in Household | 5,567 | 2.4 | 2.0-2.8 | | | |
| No Birth Control (females 18-44 & males 18-59) | 327 | 1.2 | 0.4-3.2 | | | |
| Birth Control (females 18-44 & males 18-59) | 1,660 | 0.3 | 0.2-0.7 | | | |
| Never Been Tested for HIV (18-64) | 3,070 | 1.0 | 0.7-1.4 | | | |
| Been Tested for HIV (18-64) | 1,140 | 0.9 | 0.5-1.5 | | | |
| Sunburn in Past 12 Months | 2,126 | 0.5 | 0.3-0.8 | | | |
| No Sunburn in Past 12 Months | 3,856 | 3.7 | 3.1-4.4 | | | |
| Military Veteran | 994 | 4.6 | 3.4-6.2 | | | |
| Not a Military Veteran | 4,996 | 1.9 | 1.5-2.2 | | | |

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

Table 84, on the next page, displays what respondents did to lower their risk of developing heart disease or stroke. The majority of respondents ate fewer high fat or high cholesterol foods, ate more fruit and vegetables, and were more physically active. In 2002 and 2004 the highest percent of respondents were more physically active with 72.9 percent and 77.4 percent respectively.

Table 84 Respondents Did the Following to Lower Their Risk of Developing Heart Disease or Stroke, 2002 and 2004

| | 2004 | | 2002 | |
|--|---------------|---------|---------------|---------|
| | # Respondents | Percent | # Respondents | Percent |
| More physically active | 5,984 | 77.4 | 4,678 | 72.9 |
| Eating more fruits and vegetables | 5,986 | 76.9 | 4,669 | 72.7 |
| Eating fewer high fat or high cholesterol food | 5,895 | 62.1 | 4,608 | 63.2 |

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2002 and 2004

The majority of respondents were not told by a doctor, nurse, or other health professional within the past 12 months to eat fewer high fat or high cholesterol foods, eat more fruits and vegetables, or be more physically active. Table 85, below illustrates this.

| Table 85 Respondents Who Were Told by a Doctor, Nurse, or Other Health Professional Within the Past 12 Months to do the Following, 2002 and 2004 | | | | | | |
|--|---------------|---------|---------------|---------|--|--|
| | 2004 | | 2002 | | | |
| | # Respondents | Percent | # Respondents | Percent | | |
| Be more physically active | 5,992 | 29.1 | 4,692 | 26.1 | | |
| Eat more fruits and vegetables | 5,990 | 27.1 | 4,694 | 24.2 | | |
| Eat fewer high fat or high cholesterol food | 5,996 | 23.4 | 4,689 | 19.0 | | |

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2002 and 2004